

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Dirk LEINWEBER, et al.

Serial No.: 10/559,719

Art Unit: 1796

Filed: December 5, 2005

Examiner: Wang, C.C.

For: Alkoxylated, Cross-Linked Polyglycerols And Use Thereof As
Biodegradable Demulsifier

DECLARATION UNDER 37 CFR 1.132

Mail Stop
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Dear Sir:

I, Stefan Dilsky, state that I am a resident of Oskar-von-Miller-Str. 9, 84503 Altötting, Federal Republic of Germany; that I am a citizen of the Federal Republic of Germany; that I am a chemist having earned the degree of Dr. rer. nat. (corresponds to Ph. D.) from the University of Würzburg, Federal Republic of Germany.

I am acquainted with the subject matter of the above identified Application No. 10/559,719, filed on December 5, 2005, for " Alkoxylated, Cross-Linked Polyglycerols And Use Thereof As Biodegradable Demulsifier ".

I have been employed for 3 years in the Research and Development department of Clariant Produkte (Deutschland) GmbH, Gendorf, Germany, where my work has focused on demulsifiers for oilfield applications.

I consider myself qualified, by my knowledge of chemistry, particularly my knowledge of organic chemistry and especially my knowledge of the chemistry of ethercarboxylic acids and by my 3 (three) years of experience in this field, obtained during my employment with Clariant Produkte (Deutschland) GmbH, in the field of oil field chemicals research.

I have made the following experiments and observations with respect to the above subject application. The difference in production processes between Knischka, et al., and the instant invention results in different products. I enclose the result of a comparative molecular weight measurement. We compared the molecular weight distribution of a compound according to the instant invention (Clariant Polygly. (n = 24.4 MB 03/29, see Figure 1) and a compound according to Knischka, et al., (EB 25, having 25 glycerol units, see Figure 2).

It is evident that the molecular weight distribution differs to a great extent when comparing the glycerol condensate of the instant invention and the glycidol adduct of Knischka, et al. The latter shows a rather narrow M_w distribution. Glycerol polycondensates have a rather broad M_w distribution. There is a difference in the polyglycerol of the instant invention when compared to Knischka, et al., and this difference is maintained when the polyglycerols are alkoxylated.

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Frankfurt am Main,

Date: 01. 03. 2003


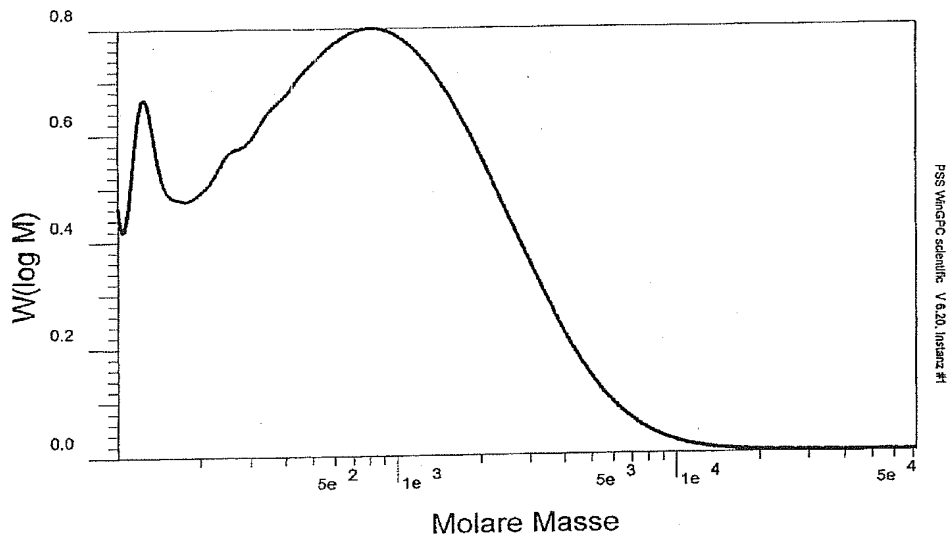

Dr. Stefan Dilsky

Figure 1



Probe : Clariant Polygly. (n=24.4) MB03/29
 Integration von : Montag 17.03.03 18:08:21
 Integration bis : Montag 17.03.03 18:20:25
 Kalibration : DMF101201S.CAL
 MHK - A (Kal.): 6.040E-1
 Int.Stand.-K : 32.000 ml
 Pumpe : TSP P100
 Konzentration : 6.100 g/l
 Säule 1 : HEMA3000/100/40
 Detektor 2 : Shodex RI-71

Eluent : 18.937 ml
 DMF mit LiBr
 31.026 ml
 MHK - K (Kal.): 2.780E-2 ml/g
 Int.Stand.-M : 31.949 ml
 Flußrate : 1.000 ml/min
 Injektvolumen : 150.000 µl
 Temperatur : 75.000 C
 Versatz : 0.000 ml
 Versatz : 0.166 ml
 Versatz : 0.000 ml
 Messintervall : 1.000 sec

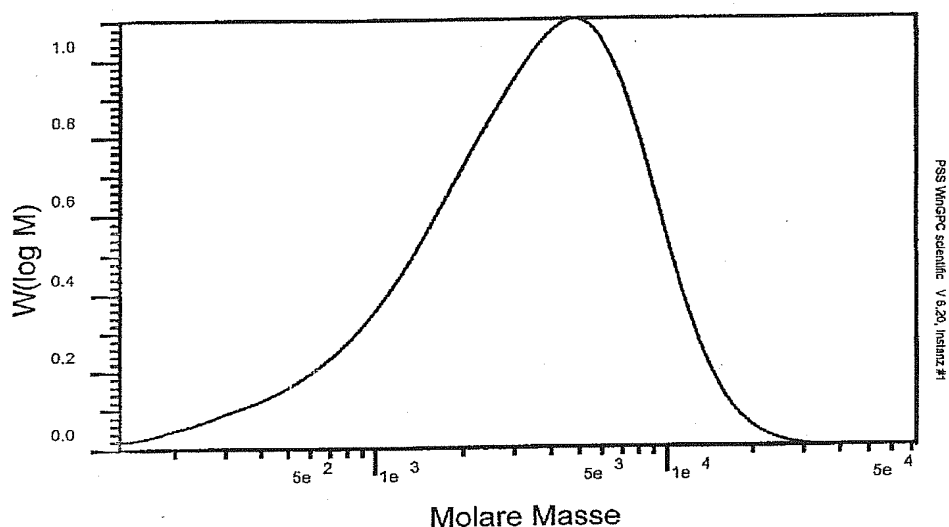
Shodex RI-71

Mn : 4.1113e2 g/mol
 Mw : 1.1683e3 g/mol
 Mz : 3.6367e3 g/mol
 Mv : 9.3833e2 g/mol
 D : 2.8415e0
 [n] : 1.7352e0 ml/g
 Vp : 2.6342e1 ml
 Mp : 8.4167e2 g/mol
 FI : 3.809e-1 ml*V
 < 100 0.00
 w% : 100.00
 > 71970 0.00

Projekt : U:\EMILIE\Experimente\Analysis\GPC\dmf.LDA
 Datum : Donnerstag 27.03.03 17:58:04

Kostenstelle :
 Zeichen :

Figure 2



Probe : EB 25
 Integration von : Dienstag 18.02.03 14:13:56
 Integration bis : Dienstag 18.02.03 14:25:11
 Kalibration : DMF101201S.CAL
 MHK - A (Kal.): 6.040E-1
 Int.Stand.-K : 32.000 ml
 Pumpe : TSP P100
 Konzentration : 5.215 g/l
 Säule 1 : HEMA3000/100/40

Detektor 2 : Shodex RI-71

Eluent : 18.921 ml
 30.180 ml
 DMF mit LiBr
 MHK - K (Kal.): 2.780E-2 ml/g
 Int.Stand.-M : 32.048 ml
 Flußrate : 1.000 ml/min
 Injektvolumen : 150.000 µl
 Temperatur : 75.000 C
 Versatz : 0.000 ml
 Versatz : 0.166 ml
 Versatz : 0.000 ml
 Messintervall : 1.000 sec

Shodex RI-71

Mn : 1.8870e3 g/mol
Mw : 4.4430e3 g/mol
Mz : 7.3476e3 g/mol
Mv : 3.9292e3 g/mol
D : 2.3546e0
[n] : 4.1210e0 ml/g
Vp : 2.3214e1 ml
Mp : 4.8980e3 g/mol
FI : 3.548e-1 ml*V
 < 130 0.00
 w% : 100.00
 > 72770 0.00

Projekt : U:\EMILIE\Experimente\Analysis\GPC\dmf.LDA
 Datum : Donnerstag 27.03.03 18:13:42

Kostenstelle :
 Zeichen :